

Recombinant Human HLA-DRB1

Catalog No: #GP13130



Package Size: #GP13130-1 100ug

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Human HLA-DRB1
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 30-266 amino acids of human HLA-DRB1
Target Name	major histocompatibility complex, class II, DR beta 1
Other Names	SS1; DRB1; HLA-DRB; HLA-DR1B
Accession No.	Swissprot:Q5Y7A7 Gene Accession:BC007920
Uniprot	Q5Y7A7
Storage	-20~-80°C, pH 7.6 PBS

Background

HLA-DRB1 belongs to the HLA class II beta chain paralogs. The class II molecule is a heterodimer consisting of an alpha (DRA) and a beta chain (DRB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa. It is encoded by 6 exons. Exon one encodes the leader peptide; exons 2 and 3 encode the two extracellular domains; exon 4 encodes the transmembrane domain; and exon 5 encodes the cytoplasmic tail. Within the DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Hundreds of DRB1 alleles have been described and typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. DRB1 is expressed at a level five times higher than its paralogs DRB3, DRB4 and DRB5. DRB1 is present in all individuals. Allelic variants of DRB1 are linked with either none or one of the genes DRB3, DRB4 and DRB5. There are 4 related pseudogenes: DRB2, DRB6, DRB7, DRB8 and DRB9.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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